ORIGINAL FILE

Before the FEDERAL COMMUNICATIONS COMMISSION Washington, DC 20554

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In re

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Amendment of Section 90.494 of the Commission's Rules and Regulation concerning shared use of 900 MHz Paging Frequencies

RM-7986

FEDERAL CO-MEDICATIONS COMMISSION
OFFICE OF THE SECRETARY

To: The Commission

COMMENTS IN OPPOSITION TO PETITION FOR RULE MAKING

Dial Page, L.P. ("Dial Page"), by its attorneys, and pursuant to Section 1.401 et seg. of the Commission's Rules and Regulations, submits these comments in opposition to the Petition for Rule Making filed April 24, 1992 by the Association for Private Carrier Paging Section of the National Association of Business and Educational Radio, Inc. ("NABER"), and shows the following:

Dial Page is a provider of paging services to more than 185,000 customers in the southeastern United States. Dial Page provides these services on both Public Mobile Service ("PMS") and Private Carrier Paging ("PCP") channels. Dial Page has a long standing commitment to private carrier paging. Indeed it provides service in all three PCP frequency ranges (150, 460 and 900 MHz). And a recent industry journal ranked Dial Page as the fourth largest PCP carrier in the nation. Thus, Dial Page is in a unique position to provide insight into NABER's proposal.

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Among other facilities, Dial Page currently operates a multistate 462 MHz PCP system with more than 50 transmitters.

After having carefully evaluated NABER's proposal, Dial Page must urge the Commission not to adopt it for the following reasons.

- NABER advances its proposal as a method of promoting the growth of 900 MHz PCP systems and preventing certain problems which it asserts have developed concerning channel sharing in the bands below 900 MHz. Preliminarily, Dial Page is concerned that NABER has not sufficiently demonstrated what, if any, problems have developed from channel sharing. Although obviously the elimination of channel sharing will also eliminate any problems which may have arisen from channel sharing, NABER's petition fails to make any showing that significant channel sharing problems have developed, much less to make a sufficient showing that they are so serious as to require such a drastic remedy as importantly, NABER's eliminating frequency sharing. More proposal promises to create other problems which will likely hinder, rather than help, the development of the PCP service.
- 3. To that end, Dial Page is unconvinced of NABER's major sharing is either inefficient or premises that channel To the contrary, Dial Page's experience confirms unworkable. that the present system is not broken and does not, therefore, need to be fixed. Dial Page has admittedly occasionally encountered a problem where shared frequencies have resulted in However, Dial Page has been able in those some interference. instances to resolve these problems by agreement with the carriers involved. NABER's petition, while suggesting a serious interference problem exists, fails to provide any data concerning

either the degree of the problem, or proof that the problem is irremediable without adoption of its proposal. Both of these omissions are serious deficiencies in its petition.

Dial Page also disagrees with NABER's assertion that 4. shared frequencies are inefficient. The rationale for sharing frequencies is to achieve efficient channel use by requiring multiple users to aggregate traffic on a single channel. NABER's petition does not address how that goal is not now being realized, nor how its proposal would continue to accommodate that Rather, the only mention of spectral efficiency in the petition is NABER's bare assertion that "all methods of sharing a frequency inevitably restrict the maximum number of pagers a frequency can accommodate." Petition at 4. That assertion, however, does not follow, because, shared or not, there are a limited number of users which any channel can accommodate. Sharing frequencies can increase spectrum efficiency by allowing the maximum number of users to be accommodated and the PCP channel to be fully loaded, and most importantly, removing any incentive to warehouse frequencies. $\frac{2}{}$ Spectrum efficiency is not increased by allocating PCP channels without regard to the traffic PCP carriers will load onto those channels. adoption of NABER's proposal -- contrary to its argument -- is likely to lower, not increase, spectrum efficiency.

Dial Page, of course, distinguishes a fully loaded channel from a congested channel. It is NABER's responsibility, as a frequency coordinator, to coordinate usage of channels so that they are fully -- but not excessively -- utilized.

- Indeed, it appears to Dial Page that concerns of 5. spectral efficiency play little part in NABER's proposal. Rather, the NABER proposal seems to emphasize the creation of Nothing in the rules nationwide and regional PCP networks. currently restricts the nationwide or regional use of PCP In fact, as Dial Page explained earlier, it is an frequencies. operator of such a regional system, using a shared frequency. NABER has made no showing that a regional or a nationwide system cannot be created and operated efficiently on a shared frequency. Dial Page believes it would be spectrally inefficient to tie-up a frequency for exclusive use for a nationwide or a regional system without a convincing showing of the need to do so. The Commission ought not, therefore, without that clear demonstration of need, modify its rules to encourage the inefficient use of valuable spectrum.
- 6. There are currently three nationwide PMS paging frequencies. To Dial Page's understanding, only one of those three channels is fully loaded. Moreover, there are 37 931 MHz PMS channels available for the creation of regional systems on an exclusive basis. There is simply no need that NABER has shown to create more exclusive allocations just for the creation of regional or national paging networks.
- 7. Given the lack of a demonstrated need for the reallocation of PCP spectrum from shared to exclusive use, the creation of exclusive frequency assignments will severely harm the very persons for whom PCP channels are most valuable, small

carriers and start up companies. They stand to be frozen out of the business by (1) the existing 900 MHz PCPs which would automatically be given protection under the NABER buildout proposal 2/ and (2) by the inevitable wave of speculators which would be let loose to gum up this Commission's processes by the PCP frequency grab NABER's proposal would launch.

If this Commission has learned anything in the last ten years, it is that any mass award of exclusive spectrum rights quickly met with a massive wave of speculators -- conjured up by the application mills -- whose goal is not public service, but rather profiting from the scarcity value of the spectrum awarded. The Common Carrier Bureau has seen this happen in the case of The Mass Media Bureau has seen this happen in cellular and MMDS. the hearings following the Docket 80-90 FM allocations. And the Private Radio Bureau has seen this happen most recently in the Indeed, the 220 MHz filing experience is quite 220 MHz filings. instructive. Without one whit of scarcity in most areas of the country, the Commission's lottery approach and the application mills combined to create such a groundswell of speculation that the Bureau is yet to set for lottery, much less award, even one license, given the enormous task of processing the more than 50,000 applications filed.

Indeed, the NABER proposal is inherently discriminatory in favor of large, well financed paging concerns and against small, modestly capitalized startup companies. The Commission ought not in these tough economic times throw unnecessary roadblocks to entry in the path of startup enterprises.

- 9. If the Commission awards exclusive use of 900 MHz PCP frequencies, there is no doubt that the application mills and the speculators will quickly tie up all available spectrum in the hope of turning a quick profit. While NABER appears to recognize at least the possibility that there will be a tendency for hoarding of these frequencies, the only mechanism NABER can posit to prevent this abuse is to require appropriate buildout. Although the requirement may be marginally helpful, Dial Page doubts it will have any real salutary effect. If the experience gained with the 900 MHz PMS frequencies is any indication, requiring system buildout will only result in near empty PCP systems "operating" while speculators wait for a good offer.
- 10. Indeed, Dial Page's own experience in creating a 900 MHz wide-area, multistate PMS system is telling. Dial Page has been hindered in its efforts to create this system by operators who are licensed for its target frequency, but who are making no real effort to market the frequency. Likewise, Dial Page is aware of other instances, including cases in some of the larger cities in the nation, where 900 MHz PMS frequencies have been licensed to carriers who after constructing those facilities, decided that the best economic use was to let the channels remain essentially unused while their spectrum value appreciated.4/ The

For example, a frequency search of 900 MHz PMS channels within a 20 mile radius of the District of Columbia reveals that of the 37 non-nationwide 931 MHz PMS channels, all but three have been allocated. Some have been authorized and apparently expired unbuilt. Yet, the District of Columbia Yellow Pages indicates only 27 total entries for paging (continued...)

Commission has limited enforcement capability. It is not going to be able to ensure that PCP carriers obtaining exclusive use of a frequency do in fact provide service. Warehousing is bound to occur in light of this fact. Frequency sharing, by contrast, removes any incentive for warehousing because it prevents artificial scarcity of spectrum.

The 900 MHz PCP frequencies which are not now being fully used are in essence the reserve spectrum for PCP users of The Commission should not be upset that this the future. spectrum is not now fully utilized. As demand for PCP service grows, it is important that spectrum be available to fulfill that Should the Commission set off a spectrum grab for these frequencies, this current reserve will quietly be gobbled up in The small startup or existing PCP companies who speculation. actually need the spectrum for future expansion will be the losers from that spectrum rush as they will be frozen out of the the Commission, which will have to process industry; speculative applications and police the speculators, will also be the loser. But the biggest loser will be the public because it will suffer from the higher cost of PCP service as a result of the profits paid to the speculators and it will suffer from degraded service as a result of the delay the Commission will

^{4/(...}continued)
companies providing service in the District. Thus, even assuming they all are licensed for 931 MHz (which is extremely unlikely), it is clear that substantial warehousing is occurring of those channels which were licensed in the mid-80's.

experience from processing thousands of speculative applications.

- band be tied up by speculation, any new users will have to go to the VHF or UHF bands, which as NABER admits, are already crowded. This added demand on the VHF and UHF frequencies will only serve to increase any problems of channel sharing which currently exists, to the injury of existing users of those channels such as Dial Page.
- 13. Dial Page understands and appreciates the Commission's desire to prompt full use of the 900 MHz PCP spectrum. However, Dial Page's concern is that awarding exclusive use of the PCP frequencies will prompt the application for and licensing of the spectrum, but not the use thereof. Therefore, Dial Page believes that adoption of the NABER proposal would be counterproductive to the long-term interests of the PCP industry and to the public interest. In sum, the NABER proposal should be rejected as unnecessary and counterproductive. Rather the solution to the frequency sharing problem is setting effective frequency sharing

rules and adequately enforcing them. That should be the focus of the Commission's approach to PCP.

Respectfully submitted,

DIAL PAGE, L.Pr

Consta

Gerald S. McGowan George L. Lyon, Jr.

Its Attorneys

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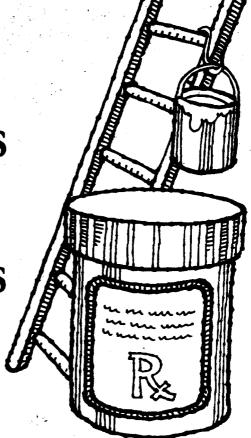
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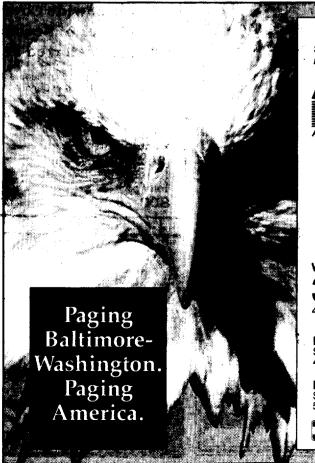
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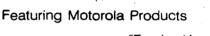
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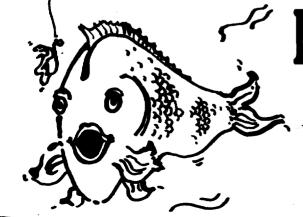
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| 76.48.34 38.48.16 METROCALL OF DELAWARE, | MD KOR798 INC | | 89 04/01/99 CD-ML-(01)-92 | 12.5 120.8⊕[|
| 76.54.06 38.37.48 METROCALL OF DELAWARE, | MD KOR798 | , , | 89 04/01/99 D-ML-(01)-92 | 19.3 162.5©[|
| 77.00.18 38.57.17 METROCALL OF DELAWARE, | | | 789 04/01/99 CD-ML-(01)-92 | 4.0 3.3©[|
| 77.01.54 38.53.47 | DC KOR798 | AUTH 05/31/ | 89 04/01/99 | 1.2 |

22089-CD-ML-(01)-92

22089-CD-ML-(01)-92

22089-CD-ML-(01)-92

22089-CD-ML-(01)-92

AUTH 05/31/89 04/01/99

AUTH 05/31/89 04/01/99

VA KOR798 AUTH 05/31/89 04/01/99

4.0 304.3©[

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| FCC Staff Study List as of: April 1, 1992 | 06-09-92 16:21 | |
| Longitude Latitude State CallSign Status Grant PN/ExpDt Applicant/Licensee File Number | Distance & Bearing WshDC | |
| ************************************** | ****** | |
| 77.08.58 39.04.56 MD KOR798 AUTH 05/31/89 04/01/99 METROCALL OF DELAWARE, INC 22089-CD-ML-(01)-92 | 14.8 329.3©[| |
| 77.13.45 38.55.20 VA KOR798 AUTH 05/31/89 04/01/99 METROCALL OF DELAWARE, INC 22089-CD-ML-(01)-92 | 12.0 278.2©[| |
| 77.21.18 38.57.00 VA KOR798 AUTH 05/31/89 04/01/99 METROCALL OF DELAWARE, INC 22089-CD-ML-(01)-92 | | |
| ************************* End of 931.0125 MHz *********************************** | | |
| Summary of search results Search: WshDC Closest matching record: 1.2 | | |
| Number of matching records: 10 ************************************ | ****** | |
| ************************************** | ****** | |
| 77.07.21 38.50.46 VA KNKL416 AUTH 12/22/88 12/22/89 PACTEL PAGING 22704-CD-P/L-(01)-90 | 7.1 239.9@[| |
| 77.13.38 38.54.57 VA KNKL416 AUTH 12/22/88 12/22/89 PACTEL PAGING 22704-CD-P/L-(01)-90 | 11.8 276.1©[| |
| ************************************** | | |
| Summary of search results Search: WshDC Closest matching record: 7.1 Number of matching records: 2 | ***** | |
| | | |
| ************************************** | ***** | |
| 76.41.23 38.52.33 MD KNKK284 AUTH 05/28/87 05/28/88 SOUTHLAND HOLDINGS, INC. 23549-CD-P/L-(01)-84 | 17.3 95.0©[| |
| 76.52.23 39.07.46 MD KNKK284 AUTH 10/17/91 04/01/99 SOUTHLAND HOLDINGS, INC. 20798-CD-ML-(01)-92 | 17.6 24.6©[| |
| 77.01.46 38.59.47 MD KNKK284 AUTH 05/28/87 05/28/88 SOUTHLAND HOLDINGS, INC. 23549-CD-P/L-(01)-84 | 6.9 350.9©[| |

77.04.16 38.55.50 DC KNKG360 AUTH 11/15/85 11/15/86 ALPINE PARTNERS 23409-CD-P/L-(01)-83

ALPINE PARTNERS

278.29[

| FREQU | ENCY S | EARCH RESULTS | Page 3 |
|--|-------------------------|--|-----------------------------|
| FCC Staff Study List a | s of: April | 1, 1992 | 06-09-92 16:21 |
| Longitude Latitude St Applicant/License | | n Status Grant PN/ExpDt File Number | Distance & Bearing WshDC |
| ******* | ***** 931.11 | 125 MHz (Cntd) ********* | ****** |
| 77.08.58 39.04.56 SOUTHLAND HOLDINGS, IN | | AUTH 05/28/87 05/28/88 23549-CD-P/L-(01)-84 | 14.8 329.3©[|
| 77.21.20 38.56.58 SOUTHLAND HOLDINGS, IN | | AUTH 05/28/87 05/28/88 23549-CD-P/L-(01)-84 | 19.0 280.9©[|
| | | of 931.1125 MHz ********* nin the requested search an | |
| Number of | matching rematching rec | earch: WshDC ecord: 4.0 cords: 6 | ****** |
| ******* | ******* 93 | 31.1375 MHz ********** | ****** |
| 77.00.47 38.52.55 HENRY M. ZACHS | DC KNKO246 | 5 AUTH 08/13/91 08/13/92 22452-CD-P/L-(01)-91 | 1.1 191.1©[|
| 77.02.29 38.53.56 HENRY M. ZACHS | DC KNKO246 | 5 AUTH 08/12/91 08/12/92 22450-CD-P/L-(01)-91 | 1.7 273.2©[|
| 77.06.57 38.50.41 HENRY M. ZACHS | VA KNKO247 | 7 AUTH 08/13/91 08/13/92 22449-CD-P/L-(01)-91 | 6.8 237.7©[|
| 77.08.58 39.04.56 HENRY M. ZACHS | MD KNKL392 | 2 AUTH 02/13/90 02/13/91 31936-CD-P/ML-(01)-89 | 14.8 329.3©[|
| 77.09.31 39.04.55 HENRY M. ZACHS | MD KNKL392 | 2 AUTH 02/22/91 04/01/99 23197-CD-ML-(01)-91 | 15.1 327.7©[|
| 77.13.45 38.55.20 | VA KNKO247 | 7 AUTH 08/12/91 08/12/92 | 12.0 |

22451-CD-P/L-(01)-91

Summary of search results-- Search: WshDC Closest matching record: 1.1
Number of matching records: 6

HENRY M. ZACHS

METRO-TONES, INC.

METRO-TONES, INC.

| FCC Staff Study List as of: April 1, 1992 | 06-09-92 16:21 |
|--|-----------------------------|
| Longitude Latitude State CallSign Status Grant PN/ExpDt Applicant/Licensee File Number | Distance & Bearing WshDC |
| ************************************** | ****** |
| 77.13.38 38.54.57 VA KNKM363 AUTH 04/17/91 07/01/98 AMERICAN PAGING, INC. 24442-CD-ML-(01)-91 | 11.8 276.1©[|
| ************************* End of 931.1625 MHz ********* 1 matching record within the requested search are | |
| Summary of search results Search: WshDC Closest matching record: 11.8 Number of matching records: 1 ************************************ | ****** |
| ************************************** | ****** |
| 77.01.56 38.54.05 DC KNKM815 PEND 10/16/91 SNET PAGING, INC. 29260-CD-P/ML-(01)-91 | 1.3 282.2©[|
| 77.04.16 38.55.50 DC KNKM815 PEND 01/22/92 SNET PAGING, INC. 22519-CD-P/ML-(01)-92 | 4.0 304.3©[|
| ************************ End of 931.1875 MHz ******** 2 matching records within the requested search as | |
| Summary of search results Search: WshDC Closest matching record: 1.3 Number of matching records: 2 ************************************ | ***** |
| ************************************** | ****** |
| 76.41.23 38.52.33 MD KNKK485 AUTH 11/06/90 04/01/99 METRO-TONES, INC. 27841-CD-R-(01)-89 | 17.3 95.0©[|
| 77.00.15 38.57.18 DC KNKL866 AUTH 03/16/89 11/16/89 METRO-TONES, INC 31837-CD-P/ML-(01)-89 | 4.0 3.9©[|
| 77.00.15 38.57.18 DC KNKK485 AUTH 07/29/87 07/29/88 METRO-TONES, INC. 24164-CD-P/L-(01)-87 | 4.0 3.9@[|
| 77.04.21 38.55.56 DC KNKK485 AUTH 11/06/90 04/01/99 METRO-TONES, INC. 27841-CD-R-(01)-89 | 4.2 305.1©[|
| 77.06.44 39.02.48 MD KNKK485 AUTH 11/06/90 04/01/99 | 11.7 |

77.07.04 38.49.58 VA KNKK485 AUTH 11/06/90 04/01/99

27841-CD-R-(01)-89 331.7@[

27841-CD-R-(01)-89

7.4

232.79[

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| FCC Staff Study List as of: April 1, 1992 | 06-09-92 16:21 |
| Longitude Latitude State CallSign Status Grant PN/ExpDt Applicant/Licensee File Number | Distance & Bearing WshDC |
| ************************************** | ****** |
| 77.07.04 38.49.58 VA KNKM478 AUTH 06/11/90 04/01/99 METRO-TONES, INC OF VIRGINIA 30548-CD-P/ML-(01)-89 | 7.4 232.7©[|
| ************************ End of 931.2125 MHz ********* 7 matching records within the requested search ar | |
| Summary of search results Search: WshDC Closest matching record: 4.0 Number of matching records: 7 ************************************ | ****** |
| ************************************** | ****** |
| 76.58.48 38.48.19 MD KNKE206 AUTH 02/13/90 02/13/91 21387-CD-P/ML-(01)-90 RAM COMMUNICATIONS OF MASSACHUSETS INC | 6.6 166.1©[|
| 77.04.16 38.55.50 DC KNKE206 AUTH 05/15/90 04/01/99 RAM COMMUNICATIONS OF MASSACHUSETS INC 25869-CD-R-(01)-89 | 4.0 304.3©[|
| 77.07.04 38.49.58 VA KNKE206 AUTH 02/13/90 02/13/91 21387-CD-P/ML-(01)-90 RAM COMMUNICATIONS OF MASSACHUSETS INC | 7.4 232.7©[|
| 77.21.20 38.57.00 VA KNKE206 AUTH 02/13/90 02/13/91 21387-CD-P/ML-(01)-90 RAM COMMUNICATIONS OF MASSACHUSETS INC | 19.0 281.0©[|
| ************************ End of 931.2375 MHz ******** 4 matching records within the requested search ar | |
| Summary of search results Search: WshDC Closest matching record: 4.0 Number of matching records: 4 ************************************ | ****** |
| ************************************** | ****** |
| 77.02.16 38.54.40 DC KNKM358 AUTH 04/17/90 04/17/91 AULT, PHILLIP 28598-CD-P/L-(01)-89 | 1.8 301.3©[|
| ************************* End of 931.2625 MHz ********* 1 matching record within the requested search are | |
| Summary of search results Search: WshDC Closest matching record: 1.8 Number of matching records: 1 | |
| ************************************** | ****** |

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12.4 227.5©[

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| Longitude Latitude State CallSign Applicant/Licensee | n Status Grant PN/ExpDt File Number | Distance & Bearing WshDC |
| ******** 93 | 31.2875 MHz ********** | ****** |
| | | |
| 76.41.23 38.52.33 MD KNKE38 PAGING NETWORK OF WASHINGTON, INC. | 7 AUTH 11/13/91 04/01/99 | 17.3 |
| PAGING NETWORK OF WASHINGTON, INC. | . 22133-CD-ML-(01)-92 | 95.0©[|
| | | 1.4.0 |
| 76.48.06 38.46.19 MD KNKE38 PAGING NETWORK OF WASHINGTON, INC | / AUTH 11/13/91 04/01/99 | 14.2 |
| PAGING NETWORK OF WASHINGTON, INC | . 22133-CD-ML-(01)-92 | 127.7⊕[|
| 7. F2 F.C 20 F0 20 MD WNVE20 | 7 NIMII 02/00/00 02/00/00 | 0.4 |
| 76.52.56 38.59.30 MD KNKE38 PAGING NETWORK OF WASHINGTON, INC | AUTH 03/08/89 03/08/90 | 9.4 46 501 |
| PAGING NETWORK OF WASHINGTON, INC | . 26/28-CD-P/ML-(UI)-89 | 46.59[|
| 76 50 50 30 40 14 MD WNVF30 | 7 XIITH 11/12/01 04/01/00 | 6 6 |
| 76.58.50 38.48.14 MD KNKE38 PAGING NETWORK OF WASHINGTON, INC | 22122-CD-MT-(01)-02 | 166 60 C |
| PAGING NEIWORK OF WASHINGTON, INC | 22133-CD-ML-(01)-92 | 100.09[|
| 76 50 35 38 50 55 DC KNKF38 | 7 ATTTH 11/13/91 04/01/99 | 3 5 |
| 76.59.35 38.50.55 DC KNKE38 PAGING NETWORK OF WASHINGTON, INC | 22133=CD=MI = (01) = 02 | 165 6@f |
| FAGING NETWORK OF WASHINGTON, THE | . 22133 CD MB (01) 32 | 103.00[|
| 77 00 25 38 56 20 DC KNKE38 | 7 ATTTH 11/13/91 04/01/99 | 2 9 |
| 77.00.25 38.56.20 DC KNKE38 PAGING NETWORK OF WASHINGTON, INC | 22133-CD-MI-(01)-92 | 2 A 🖰 [|
| TAGING NEIWORK OF WASHINGTON, INC | . 22133 65 111 (01) 32 | 2.49[|
| 77.00.18 38.57.17 DC KNKE96 | AIITH 12/30/86 12/30/87 | 4.0 |
| 77.00.18 38.57.17 DC KNKE969 CHRONICLE TELECOM | 20787-CD-P/L-(01)-87 | 3.3@[|
| | 20.0. 02 1/2 (01) 0. | 3.30[|
| 77.02.24 38.54.30 DC KNKE38 | 7 AUTH 11/13/91 04/01/99 | 1.8 |
| 77.02.24 38.54.30 DC KNKE38 PAGING NETWORK OF WASHINGTON, INC | 22133-CD-ML-(01)-92 | 294.2©[|
| , | | |
| 77.03.27 38.59.59 MD KNKE38 | 7 AUTH 03/08/89 03/08/90 | 7.5 |
| 77.03.27 38.59.59 MD KNKE38 PAGING NETWORK OF WASHINGTON, INC | 26728-CD-P/ML-(01)-89 | 339.7©[|
| • | , , , | • |
| 77.03.13 38.51.38 VA KNKE38 | 7 AUTH 11/13/91 04/01/99 | 3.5 |
| 77.03.13 38.51.38 VA KNKE38' PAGING NETWORK OF WASHINGTON, INC | 22133-CD-ML-(01)-92 | 223.2©[|
| · | , , | • |
| 77.03.48 38.50.03 VA KNKE38 | 7 AUTH 11/13/91 04/01/99 | 5.3 |
| PAGING NETWORK OF WASHINGTON, INC | | |
| · | , , | • |
| 77.04.26 38.55.32 DC KNKE38 | 7 AUTH 03/08/89 03/08/90 | 4.0 |
| PAGING NETWORK OF WASHINGTON, INC | . 26728-CD-P/ML-(01)-89 | 299.0©[|
| | | |
| 77.04.16 38.55.50 DC KNKE969 | 9 AUTH 11/15/85 11/15/86 | |
| CHRONICLE TELECOM | 22861-CD-P/L-(01)-83 | 304.3©[|
| | | |
| | 7 AUTH 11/13/91 04/01/99 | |
| PAGING NETWORK OF WASHINGTON, INC | . 22133-CD-ML-(01)-92 | 323.2©[|
| | | - |
| | 7 AUTH 11/13/91 04/01/99 | |
| PAGING NETWORK OF WASHINGTON, INC | . 22133-CD-ML-(01)-92 | 259 . 4©[|
| | | |
| | 7 AUTH 11/13/91 04/01/99 | |
| PAGING NETWORK OF WASHINGTON, INC | . 22133-CD-ML-(01)-92 | 329.3@[|
| | | |

77.10.42 38.46.35 VA KNKE387 AUTH 11/13/91 04/01/99 PAGING NETWORK OF WASHINGTON, INC. 22133-CD-ML-(01)-92

| FREQUENCY SEARCH RESULTS | Page 7 |
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| FCC Staff Study List as of: April 1, 1992 | 06-09-92 16:21 |
| Longitude Latitude State CallSign Status Grant PN/ExpDt D Applicant/Licensee File Number | istance & Bearing WshDC |
| ************************************** | ***** |
| 77.13.45 38.55.20 VA KNKE387 AUTH 03/08/89 03/08/90 PAGING NETWORK OF WASHINGTON, INC. 26728-CD-P/ML-(01)-89 | 12.0 278.2©[|
| 77.20.12 38.51.25 VA KNKE387 AUTH 11/13/91 04/01/99 PAGING NETWORK OF WASHINGTON, INC. 22133-CD-ML-(01)-92 | 17.9 261.0©[|
| 77.21.20 38.57.00 VA KNKE387 AUTH 11/13/91 04/01/99 PAGING NETWORK OF WASHINGTON, INC. 22133-CD-ML-(01)-92 | |
| ************************* End of 931.2875 MHz ********** 20 matching records within the requested search area | |
| Summary of search results Search: WshDC Closest matching record: 1.8 Number of matching records: 20 ************************************ | ****** |
| ************************************** | ***** |
| 77.04.26 38.55.38 DC KNKF852 AUTH 11/15/85 11/15/86 MOBILE/COMM OF D.C. INC. 23434-CD-P/L-(01)-83 | 4.0 300.4©[|
| 77.10.42 38.46.35 VA KNKE387 AUTH 11/13/91 04/01/99 PAGING NETWORK OF WASHINGTON, INC. 22133-CD-ML-(01)-92 | |
| 77.21.20 38.57.00 VA KNKE387 AUTH 11/13/91 04/01/99 PAGING NETWORK OF WASHINGTON, INC. 22133-CD-ML-(01)-92 | 19.0 281.0©[|
| 77.04.16 38.55.50 DC KNKG629 AUTH 11/15/85 11/15/86 22158-CD-P/L-(01)-83 THE CHESAPEAKE AND POTOMAC TELEPHONE COMPANY | 4.0 304.3©[|
| ************************ End of 931.3125 MHz ******** | ***** |

End of 931.3125 MHz ********* 4 matching records within the requested search area

Summary of search results-- Search: WshDC Closest matching record: 4.0 Number of matching records: 4

******** 931.3375 MHz *******************

77.00.18 DC KNKG388 AUTH 02/13/90 02/13/91 4.0 38.57.17 LEHIGH COMMUNICATIONS, INC. 21226-CD-P/ML-(01)-90 3.3@[PEND 02/05/92 4.0 77.04.16 38.55.50 DC

22732-CD-P/L-(01)-92 304.30[DIAL PAGE, INC.